

Title:

Electronic Textbook in Introduction of Mathematical Methods of Physics

**Abstract:**

The objective of this work is to create a studying text not only for the first grade students of physics teaching at FMP CU but also for other students of physical and technical domains at universities which should help them with an introduction into mathematic necessary in physics. The main matter of this work is based on preparations and texts of dr. A Hladík, prof. J. Podolský and dr. V. Žák for lectures and exercises of subject Introduction of Mathematical Methods of Physics. The author's experience is also reflected of course, especially his fresh experience with the age group for which is this text created. Equally, a small recherche of an existence and an availability of other sources pursuing given matters have been done. Some of these sources are recommended in this work. The created text should help readers with elementary matter of systems of coordinates, limits and derivations with a special consideration to their applications in physics. A contribution of this work for students is going to be a subject of other researching. An extension of this text with other elementary parts of mathematical methods of physics is presumed too.